West Virginia Vectorborne Disease Surveillance Report

FOR THE PERIOD: SEPTEMBER 8-14, 2012



The purpose of this report is to share descriptive surveillance data related to vectorborne disease activity with public health partners in West Virginia. All information in this report is considered provisional. For questions or comments, contact Rachel Radcliffe (Division of Infectious Disease Epidemiology) at record-rachel-radcliffe@wv.qov

Mosquito-borne disease surveillance summary

Human Surveillance: During the period September 8 - 14, 2012, no human cases of La Crosse encephalitis virus and no human cases of West Nile virus were detected in West Virginia. Additionally, 5 possible La Crosse encephalitis cases and 14 possible West Nile virus cases are currently under investigation.

Table 1. Summary of human cases of mosquito-borne diseases for the current reporting period and 2012 (cumulative) – West Virginia

Mosquito-borne Disease	# Confirmed or Proba	able Human Cases ^a	Comments			
iviosquito-borrie Disease	Sept 8-14, 2012	Total 2012	Comments			
La Crosse infection, human	0	10	5 cases are currently under investigation			
West Nile virus infection, human	0	3	14 cases are currently under investigation			
Other mosquito-borne infection, human	0	2	All cases are travel-associated malaria infections			

^aNote: Table includes only confirmed or probable cases that have been reviewed and closed by Division of Infectious Disease Epidemiology staff

Mosquito surveillance:

Table 2. Summary of adult mosquito surveillance for the current reporting period and 2012 (cumulative) - West Virginia

	Current (Sep	Total 2012									
Mosquito Species		+ Arbovirus ^a				+ Arbovirus ^a					
	# Da ala Tasta d	w	L	S	E	# Pools	w	L	S	Ε	Comments
	# Pools Tested	N	Α	L	E	Tested	N	Α	L	E	
		٧	С	E	E		٧	С	E	Ε	
Culex spp.	37	9	-	-	1	247	28	-	-	-	
Non- Culex spp.	22	18	ı	-	1	278	155	-	ı	ı	
Total	59	27		-	1	525	183	-	ı	ı	

^aMosquito pools testing **positive** for arboviruses.

WNV=West Nile virus; LAC=La Crosse; SLE=St. Louis encephalitis; EEE=Eastern equine encephalitis

Note: The West Virginia Department of Health and Human Resources mosquito surveillance program has collected mosquitoes from the following counties: Boone, Cabell, Clay, Fayette, Harrison, Kanawha, Mercer, Nicholas, Putnam, Raleigh, Roane, Tyler, Wayne, Webster, and Wood counties. West Nile virus has been found in mosquitoes from all counties under surveillance except Tyler County. Arboviral screening will soon be conducted on mosquitoes recently submitted from Braxton County. New collaborators may submit mosquitoes from the eastern panhandle within the coming weeks.



Bird and Horse Surveillance:

Table 3. Summary of surveillance specimens submitted for dead birds and horses for the current reporting period and 2012 (cumulative) – West Virginia

	Current (Sept 8	Total 20	12		Comments				
		+ Arbovirus ^a			+ Arbovirus ^a			comments	
Type of Specimen	# specimens	W	S	E	# specimens	W	S	Е	
	tested	N	L	E	tested	N	L	Ε	
		٧	Е	E		٧	E	Ε	
Dead Bird	2	_	-	-	12	-	-	_	5 specimen tested negative for
2000 2.10									arboviruses; 6 specimens pending; 1
									sample count not be analyzed
Horse ^a	0	-	-	-	1	-	-	-	Specimen was negative

^aNote: horse specimens are tested for WNV and EEE only.

Tickborne disease surveillance summary

Human Surveillance: During the period September 8-14, 2012, no human cases of Lyme disease were detected in West Virginia. The cumulative total of human Lyme disease cases for all of 2012 is 45. No human cases of Ehrlichiosis, Anaplasmosis, Babesiosis, or RMSF have been confirmed in West Virginia during 2012.

Table 4. Summary of human cases of tickborne diseases for the current reporting period and 2012 (cumulative) – West Virginia

Tickborne Disease	# Confirmed or Prob	able Human Cases ^a	Comments			
Tickborne Disease	Sept 8-14, 2012	Total 2012	Comments			
Lyme disease, human	0	45				
Rocky Mountain spotted fever ^b	0	0				
Ehrlichiosis, human	0	0				
Other tick-borne infection, human	0	0				

^aNote: Table includes only confirmed or probable cases that have been reviewed and closed by Division of Infectious Disease Epidemiology staff
^bIncludes all spotted fever rickettsioses

Tick Surveillance:

No update

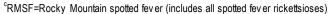


CUMULATIVE VECTORBORNE SURVEILLANCE SUMMARY TOTALS (JAN 1 2012 – Sept 14, 2012)

	MOSQUITO-BORNE										TICK-BORNE (human)				
	LAC ^a , WNV ^b , Other, WNV, Other, WNV, Other, WNV, Other,								Lyma						
County	human	human	human	equine	equine	avian	avian	mosquito		disease	RMSF ^c	iosis	Other		
Barbour	numan	numan	numan	equine	equine	avian	avian	mosquito	mosquito	disease		IOSIS			
Berkeley										30					
Boone	1							1		30					
Braxton	'							'							
Brooke															
Cabell								67							
Calhoun								01							
Clay	2							1							
Doddridge								<u>'</u>							
Fayette								22							
Gilmer															
Grant															
Greenbrier															
Hampshire										3					
Hancock															
Hardy															
Harrison								4							
Jackson								·							
Jefferson										5					
Kanawha	1	1						22							
Lewis															
Lincoln															
Logan															
McDow ell										2					
Marion															
Marshall															
Mason															
Mercer	2							3		1					
Mineral															
Mingo															
Monongalia															
Monroe		1													
Morgan										4					
Nicholas	2							16							
Ohio															
Pendleton															
Pleasants															
Pocahontas															
Preston															
Putnam								1							
Raleigh	1							3							
Randolph															
Ritchie															
Roane								7							
Summers															
Taylor															
Tucker															
Tyler		1													
Upshur															
Wayne								15							
Webster								6							
Wetzel															
Wirt															
Wood								15							
Wy oming	1														
TOTAL	10	3	0	0	0	0	0	183	0	45	0	0	0		

^{*}Note: Table includes only confirmed or probable cases that have been reviewed and closed by Division of Infectious Disease Epidemiology staff

^bWNV=West Nile virus West Virginia Vector-borne Disease Surveillance Report: September 1-7, 2012





^aLAC=La Crosse